Phys. sp. 435 f

THE

# EARTHQUAKE CATALOGUE

OF THE

# BRITISH ASSOCIATION,

WITH THE

# DISCUSSION, CURVES, AND MAPS, ETC.

BY

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AND

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BEING THIRD AND FOURTH REPORTS.

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1858.

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| 1746. Jan. 6. 1 P.M. | Around Hernösand in Angermannland. | ..... | ..... | ..... | v. Hoff; Acad. des Sciences de Stockholm, 1748, p. 156. |
| —— Feb. 2. Between 9 and 10 P.M. | Boston in New England. | A slight shock..... | ..... | ..... | Silliman's Journal, vol. xl. p. 206. |
| —— July 9. | Barga in Tuscany ..... | Some slight shocks... | ..... | ..... | Relazione giornaliera del tremuoto seguito in Barga l'anno 1746; nel mese di Giuglio, compilata dal dott. F. Tallinuci. |
| —— —— 10. | Ditto ..... | Ditto ..... | ..... | ..... | Ditto. |
| —— —— 11. 18th hour. | Ditto ..... | One very violent shock | ..... | ..... | Ditto. |
| —— —— —— 21st hour. | Ditto ..... | Ditto. Followed by numerous other slight shocks, gradually becoming less violent up to the 23rd. | ..... | ..... | Ditto. |
| —— —— 23. 22¾ hour. | Ditto ..... | An extremely violent shock. The agitation of the ground ceased the next day. | ..... | During these shocks the water in the wells was troubled and of a leaden colour. The paleness of the sun was remarked *as usual*, the uneasiness of animals, &c. Many fish died. The weather was very bad on the 19th; a south wind rendering breathing difficult. Some rocks were shaken down on the 23rd. | Ditto. |
| —— Oct. 28. 10h 30m P.M. | Lima and Callao in Peru, and all the country near along the coast. | The first shock at the hour mentioned, followed by 200 more in twenty-four hours. The shocks continued at intervals up to the 24th Feb. 1747, during which period 451 were counted. | Callao was ruined by the sea twice retreating, and returning with overwhelming violence, during which it rose 80 feet above its ordinary level. A portion of the coast sank near this, producing a bay. Four other harbours, viz. Cavallos, Guannape, Changay, and Gaura, met with the same fate as Callao. | The valleys of Baranca, Supe and Patavilca suffered greatly. Near Lucannas a mountain opened, and water came forth. The same happened with three mountains of the chain of Convensiones de Caxa Marquillo. | Hist. de l'Acad. des Sciences de Paris, 1746, Hist. p. 24; Bouguer, de la Figure de la Terre, p. 73; Hist. gén. des Voyages, t. xix. p. 311; t. xx. p. 31; v. Humboldt, Voyage, t. i. p. 319. |
| —— —— —— | In the Haut-Valais..... | More violent than any shock before felt that year. | ..... | ..... | Bertrand; Coll. Acad. |

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| 1751. ..... | Gap in Dauphiny ..... | ..... | ..... | ..... | Moniteur, 10 Avril, 1808. |
| —— ..... | At Venice ..... | A trembling..... | ..... | ..... | v. Hoff. |
| —— ..... | St. Jago di Guatemala... | ..... | ..... | ..... | Schlözer, Neue Erdbeschreibung von America, Th. ii. S. 700. |
| 1752. Jan. 12. 0h 30m A.M. | Toulouse and in the Pyrenees. | Two shocks in two minutes. | ..... | A noise was heard like that of a forge blown by bellows. Much snow fell during the night. | Mém. des Sav. Étr. t. iv. p. 118. |
| —— —— ... | Frontello, not far from Mantua. | A trembling..... | ..... | ..... | v. Hoff; Keferstein. |
| —— —— ... | Torre de Moncorvo in the province of Tralos-Montes, Portugal. | ..... | ..... | ..... | Seyfart, p. 121. |
| —— —— ... | In Chili, at Conçepçion, and on the island of Juan Fernandez. Also, according to some accounts, felt at Port-au-Prince in St. Domingo. | ..... | ..... | Possibly confounded with the St. Domingo earthquake of the year before, though this does not seem probable. | Ditto, p. 125; v. Hoff. |
| —— Feb. 23. | Dartmoor in Devonshire, and the neighbourhood. | ..... | ..... | ..... | Mrs. Bray's "Borders of the Tamar and Tavy," vol. i. p. 310. |
| —— —— 26. | Some parts of Sweden, especially at Fahlun and in Dalarne. | A slight trembling, which did not last long. | ..... | ..... | Seyfart, p. 120. |
| —— Mar. 16. 11 P.M. | Stavanger in Norway ... | A considerable shaking motion. | ..... | An unusual light seen in the East..... | Ditto, p. 121. |
| —— —— 27. | At the mouths of the Mondego and Vouga, at Aveiro in Portugal. | A violent trembling... | ..... | Houses were injured and thrown down ..... | Ditto, p. 122. |
| —— —— 31. (N.S.) 11h 30m A.M. | Bristol and other places in Somersetshire. | A considerable shaking from S. to N. | ..... | This account is not found in the English collections of earthquakes. | Ditto, p. 121. |
| —— April 15. 4 P.M. | Stavanger in Norway ... | Several violent shocks, lasting several minutes. | ..... | The weather was remarkably fine until 2 o'clock, when a small cloud rising extended itself over the heavens, and the whole evening there was a violent storm of wind, hail, and thunder and lightning; followed during the night by the appearance of a strange star of an octagonal shape, which seemed to throw forth balls of fire from its angles (!). Keilhau gives the date the 16th. | Gazette de France, 10 Juin, 1752; Seyfart, p. 122. |

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| 1. | 2. | 3. | 4. | 5. | 6. |
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| 1752. Dec. 6. 4 to 5 A.M. | Angermannland as before. | ..... | ..... | Accompanied as before by a loud noise. A feeble streak of light appeared in the heavens extending from N.E. to S.W. in the direction of the shock, for 12 or 13 (Swedish ?) miles along the coast. Balls of fire seemed to come from it. | Keilhau, as before quoted. |
| —— —— 29. Between midnight and 1 A.M. | Ditto ..... | ..... | ..... | These shocks were accompanied by subterranean and aërial noises. These latter were heard in some places where the shocks themselves were not felt. The Coll. Acad. mentions four shocks here in November, and others in December, at each time lasting one or two seconds. Direction, *as usual*, from S.W. to N.E. The author adds that earthquakes are more frequent in the North towards the end of winter. | Ditto. |
| —— ——. End of the month. | Around Urbino ..... | Tremblings ..... | ..... | ..... | Seyfart, *loc. cit.* |
| —— ..... | In the marches of Ancona, at Nocera, Santo-Gemini, Civitella, &c. | Fresh shocks ..... | ..... | Probably coincident with some of the Italian earthquakes already mentioned for this year. | Journ. Hist. Août, 1752, p. 152. |
| —— ..... | Cephalonia ..... | Violent shocks ..... | ..... | Berghaus considers these shocks as having occurred at the same time with those in Zante, *i. e.* in the beginning of June. | Montgomery Martin, Hist. of the Brit. Col. vol. v. p. 415. |
| 1753. Feb. Beginning of the month. | At Modena ..... | One shock ..... | ..... | A very thick wall was thrown down..... | Seyfart, p. 128. |
| —— March 9. $2^h\ 30^m$ P.M. (v. Hoff gives the hour $1^h\ 15^m$ P.M.) | In Piedmont, Savoy, and part of Switzerland—at Turin, Susa, Mont Cenis, the valleys of Lucerne and Perouse, Fenestrelles, Pignerol, Asti, and Geneva. | At Geneva it lasted two minutes. | ..... | A large opening appeared in Mont Cenis, from which torrents of water came. Similar ones were observed in the valleys of Lucerne and Perouse. In the mountains a noise like that of cannon was heard. At Geneva a bell sounded loudly. | Gazette de France, 24 Mars, 14 et 21 Avril; Journ. Hist., Mai, 1753, p. 387 et 465; Seyfart, *loc. cit.* |
| —— —— —— 4 P.M. | Turin ..... | Slight tremblings ... | ..... | ..... | Seyfart, *loc. cit.*; v. Hoff. |
| —— —— 10. 2 A.M. | Ditto ..... | Ditto. During this day and those following fourteen shocks were felt. | ..... | ..... | Ditto. |

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